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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/542,215	05/22/2006	Lukas Von Hippel	032301.423	1750
	7590 02/13/200 BRELL & RUSSELL	8	EXAMINER	
SUITE 3100, P	ROMENADE II		LANGEL, WAYNE A	
ATLANTA, GA	REE STREET, N.E. A 30309-3592		ART UNIT	PAPER NUMBER
			1793	
			MAIL DATE	DELIVERY MODE
			02/13/2008	PAPER

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application No.	Applicant(s)			
		10/542,215	VON HIPPEL ET AL.			
		Examiner	Art Unit			
		Wayne Langel	1793			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) 🛛	Responsive to communication(s) filed on 18 De	ecember 2007.				
•	• • • • • • • • • • • • • • • • • • • •	action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)🖂	Claim(s) 9-20 is/are pending in the application.					
-	4a) Of the above claim(s) is/are withdrawn from consideration.					
	5)⊠ Claim(s) <u>9-17</u> is/are allowed.					
6)🖂	6)⊠ Claim(s) <u>18-20</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)□	Claim(s) are subject to restriction and/or	r election requirement.				
Application Papers						
9)□	The specification is objected to by the Examine	r.				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	ınder 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) ☐ Interview Summary Paper No(s)/Mail Da				
3) 🔲 Inforr	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal P 6) Other:				

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 18-20 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Basini et al (newly cited). Basisi et al disclose a catalyst system in claim 26 which may include a combination of Pt and Cu on AlN. Accordingly claims 18-29 are anticipated by Basini et al, since one of ordinary skill in the art could at once envisage the catalyst recited in claims 18-20. In any event, it would be obvious to select AlN as the nitride and Pt-Cu as the combination of metals for the catalyst of Basini et al, since it would be within the skill of one of ordinary skill in the art to determine suitable combinations of nitrides and metals for the catalyst.

Claims 18-20 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Trubenbach et al '897 (newly cited).

Trubenbach et al '897 discloses a catalyst which may include aluminum nitride and platinum along with Cu, W, Ag and/or Au. (See col. 9, line 46 to col. 10, line 20.)

Accordingly claims 18-29 are anticipated by Trubenbach et al '897, since one of ordinary skill in the art could at once envisage the catalyst recited in claims 18-20. In any event, it would be obvious to select AIN as the nitride and Pt along with Cu, Ag, Au and/or W as the metallic powder for the catalyst of Basini et al, since it would be within the skill of one of ordinary skill in the art to determine suitable combinations of inorganic powders and metallic powders for the catalyst.

The following is a statement of reasons for the indication of allowable subject matter: Benderly is not prior art for the instant claims, for the reasons presented by applicants in the response filed December 18, 2007. Accordingly any rejections based on Benderly are withdrawn. The other rejections are withdrawn for the reasons presented by applicants in the response filed December 18, 2007.

Trubenbach et al '898 is made of record for suggesting the catalyst recited in claims 18-20.

Hecht et al is made of record for disclosing the BMA process wherein the catalyst comprises platinum and aluminum nitride.

Freund et al is made of record for disclosing a platinum-aluminum alloy catalyst.

Claims 9-17 are allowed.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wayne Langel whose telephone number is 571-272-1353. The examiner can normally be reached on Monday through Friday, 8 am - 3:30 pm Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Wayne Langel/

Primary Examiner, Art Unit 1793

Wayne Langel Primary Examiner Art Unit 1793

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